GRS:	Plum Island Rea	ar Range Light			GRS#	A24			
Protection Priori	ty Sites / Ranking:		Medium (B)	LOCATION INFORMATION County: Door CONTACT INFORMATION ine: 1-800-943-0003 ESOURCES AT RISK CHARACTERISTICS ate Park Intensive Wetlands on N side of Plum Island, Exposed Rocky Cliffs, Gravel Beaches, Sandy Beaches Point, Detroit Harbor State Natural Area Plants, Migratory Birds, Salmonids, Walleye, Yellow Perch er's Thistle (T), Hine's Emerald Dragonfly (E), Northern Long-eared Bat (T)					
			LOCATION IN	IFORMATION					
State: Wisconsin				County: Door					
			CONTACT IN	FORMATION					
EPA Spill Hotline:	312-353-2318								
Veolia Environme	ntal Services: 920-74	13-1097							
Sister Bay/ Liberty	Grove Fire Departm	nent: 920-854-4021							
-		phraim): 920-854-402	2						
-	Department: 920-74	16-2916							
Village of Sister B									
	irgeon Bay: 920-743-	-3367							
USCGC Mobile Ba	=								
		d Center: 414-747-7							
•		ource : 1-800-847-936							
vvisconsin Departi	ment of Natural Reso	ource Spill Emergency		/ CUADACTED	HETICE				
Managad Agasa		O T		CHARACIER	131163				
Managed Areas:		Grand Traverse Isla							
Shoreline Type:		Fringing Wetlands and Extensive Wetlands on N side of Plum Island, Exposed Rocky Cliffs, Gravel Beaches, Sandy Beaches							
Sensitive Habitat	:	Richters Point, Lobdells Point, Detroit Harbor State Natural Area							
Wildlife:		Terrestrial Plants, A	quatic Plants, Migratory Birds, S	Salmonids, Walley	e, Yellow Perch				
Federally Threate Endangered Spe		Dwarf Lake Iris (T),	Pitcher's Thistle (T), Hine's Em	erald Dragonfly (E)), Northern Long-	eared Bat (T)			
Socio-Economic Resources: Door County Washington Island Ferry travels to the W of Plum Island, Northpoint Pier									
Predicted Behavi	ior:				-				
			_	•	-				
					-				
		-		•	· ·				
					nt of the time, whi	ile those in the 5- to 10-100t category drop to less than			
		•		. •	ca Michigan shore	e spring winds are variable particularly in the			
		=				er also brings a slackening of windspeeds. The			
						ce in March to less than 3 percent by May. However,			
		Green Bay recorded	a 95-knot southwesterly one N	May; it is not unreal	istic to expect a w	vind extreme of 100 knots or more over open waters. to 8 percent of the time. They do slacken from their			

winter fierceness, with southerlies and southwesterlies becoming more frequent and northerlies less so as summer approaches. Strong
winds are infrequent in summer and mostly associated with thunderstorms. S and SW winds prevail particularly in the N southeasterlies are
also common in the S. Northerlies are a secondary wind.
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Fog: The shores of Lake Michigan are subject to varying amounts of fog. Upwelling along the northwest shores increases the possibility of advection fog in the spring and summer.

Response Considerations:

Ice: The first waters to form an extensive ice cover are Green Bay and the Bays de Noc. These buildups are aided by windrows resulting from prevailing winds and currents. In a normal winter, an early ice cover is established by the end of January and includes the above-mentioned waters plus the extreme S part of the lake. The surface features and location of the ice fields change as a direct function of the wind. Shores exposed to the full force of the wind often have large ice fields of very heavy brash extending 1 to 2 miles offshore. In addition, a circular current pattern in the S part of the lake distributes drifting floes along the shore. Even during a mild winter, these floes can build out 10 to 15 miles into the lake. A mild winter on Lake Michigan means about 10-percent coverage compared to an average 40-percent coverage and an 80-percent coverage during a severe winter. Maximum ice coverage occurs by mid-March, on the average, while decay begins a week or two later.

Water Temperature: The W shore waters in general are 5 to 10 degrees cooler than the E shore waters.

Harbors: The harbors on the W side of the lake are generally at the mouths of small rivers, the only large streams being the Fox and Menominee Rivers which empty into Green Bay. The entrances to the harbors are generally protected by parallel piers, and some have been provided with stilling basins. Some harbor entrances are protected by detached breakwaters. The most important harbors in Lake Michigan are Muskegon, Calumet, Chicago, Milwaukee, Kenosha, and Green Bay

Recommended Spill Response Strategy Table

Site ID	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Response Strategy	Implementation	Min Boom Length	Staging Area	Boat Access	Land Access	Priority	Date Last Verified	<u>State</u>	County	<u>Sector</u>	Address
Plum Island Range Rear Light (A24)	45.3075	-86.9578	Exclusion	On Land Lay boom on beach no impact to actual structure	1000'	Sawyer Park 421 Michig an St., Sturge on Bay WI 54235	Liberty Grove Boat Ramp, 12030 Cedar Road, Ellison Bay, WI 54210	none	Medium	1-Dec-16	WI	Door	SLM	Plum Island Rear Range Lighthouse, Washington, WI 54246

LOGISTICS

Logistics Support Table

Name	Туре	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Address	County	Owner / POC	Access Limitations	Description	State	Sector
Sawyer Park	Staging Area	44.8288 N	087.3813 W	Sawyer Park 421 Michigan St., Sturgeon Bay, WI 54235	Door	WI DNR	None	Public Boat ramp with large parking lot	WI	SLM

Liberty Grove	Boat ramp	45.2546N	87.0747 W	12030 Cedar Road, Ellison Bay, WI 54210	Door	State of WI	None	Public boat ramp	WI	SLM
				COMMENTS						
				um Island to public acc						
nes	tillig illigiatoly	birds. The life-say	ing station can be	e seen at a distance fro	om the	Northport-	vvasnin	gton Island terry	∕.	

